CREATOR Electronics

CR-200 T/R Twisted Pair

USER MANUAL

Please read this manual carefully before using this product.

Content Table

Attention 1
Features 1
Packing List 1
Installation diagram 2
Twisted pair cable connection 2
External control and adjustment 2
Parameters 4

Attention

1. Ensure 100~250VAC@50Hz AC power input.
2. DO NOT place the system equipment in the place too cold or too hot.
3. As the power generating heat when running, the working environment should be maintained fine ventilation, in case of damage caused by overheat.
4. In humid weather or left unused for long time, please cut off the general power.
5. Without permission, please DO NOT try to open the case, DO NOT repair it on your own, in case of accident.
6. Check the unit every a certain period, use CREATOR software to switch every route, and check the running status, if the unit is not working normally, cut off the power immediately or contact the authorized dealer or distributor Twisted Pair.

Features

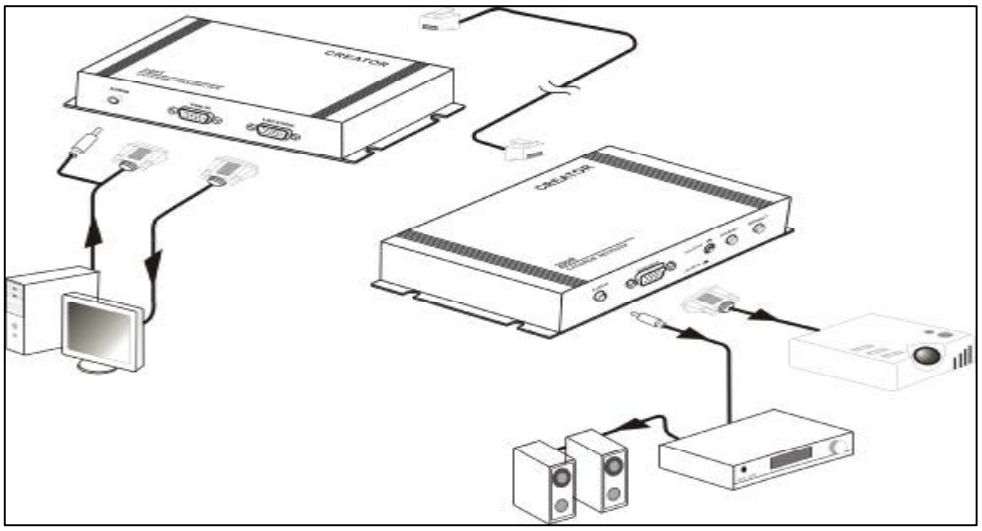
- Common CR-200T/R Cable (35~200M) can transmit high-quality RGB signal.
- Sharpness and brightness adjustable.
- Compensation and proofread technology adopted in Wideband RGB long-line transmission.
- Effective and energy-saving, flexible installation.

Packing List

The packing list of this system is as follow:

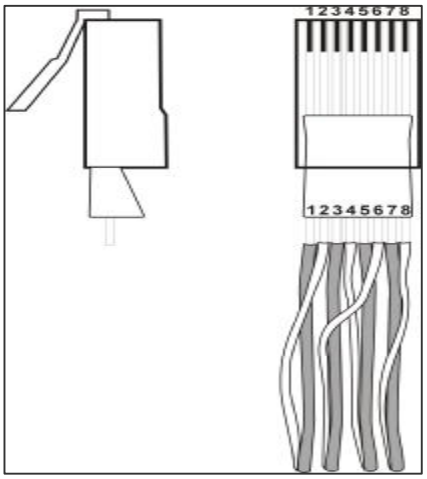
Item	Unit	Quantity	Remarks
CR-200T Transmitter	set	1	
CR-200R Receiver	set	1	
＋12VDC power adapter	set	2	
CR-200T/R User Manual	pc	1	

Installation diagram



Twisted pair cable connection

No.	Signal type	Cable color
1	R＋	green white
2	R－	green
3	AUDIO＋	orange white
4	G/H＋	blue
5	G/H－	blue white
6	AUDIO－	orange
7	B/V＋	brown white
8	B/V－	brown



External control and adjustment

Video description:

① CR-200T/R net cable connection. Don’t connect this net port cable directly to the Ethernet port of PC.

② Connect to the output port of +12VD power adapter. Inside is +, outside is -.

③ Stereo input.

④ Local VGA input. Signal type: RGBHV.

⑤ Local VGA output.

⑥ Terminal stereo output.

⑦ Terminal VGA signal input.

⑧ Distance option for CR-200T/R net transmission.

If beyond 35~100M,don't press the button.

If within 35~100M, press the button.

⑨ Sharpness compensation adjustment.

Rotate Counterclockwise to reduce sharpness.

Rotate Clockwise to intensify sharpness.

If ghosts exist, intensify the sharpness.

If over-intensify, the edge of the words will whitening, Counterclockwise is needed then.

If run with projector, low refresh rate is recommended (such as 60Hz) to save bandwidth,and improve the whole effect.

If the CR-200T/R net cable is shorter than 50m, over-compensation will result in synchronization error, which is not the problem of the product.

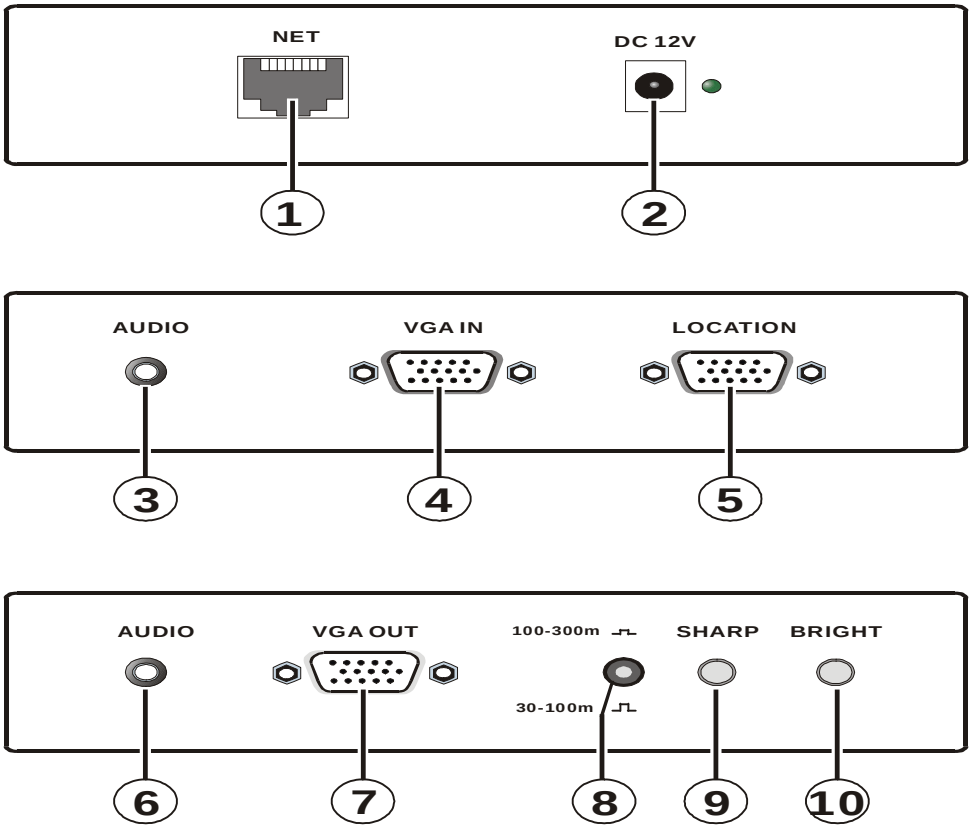
⑩ Picture brightness compensation adjustment.

Rotate counterclockwise to reduce brightness.

Rotate clockwise to intensify brightness.

Audio description:

Fully digital transmit.



Parameters

Case dimension: 430×106×28 (mm)
Input power: AC 220V 50Hz
Working temperature: -10 °C～60 °C
Relative humidity: ≤95%(no frost)
Video frequency:
Bandwidth,

200MHz(-3dB)@50M	1600x1200@70Hz
135MHz(-3dB)@100M	1280x1024@75Hz
108MHz(-3dB)@130M	1024x768@75Hz
80 MHz(-3dB)@200M	1024x768@60Hz

SNR: ＞70dB@100MHz_100M.
Signal type: RGBHV
Electrical level range: 1～2.0Vpp
Input impedance: 75Ω
Input standard: RGBHV
Connection mode: VGA
Gain: 0dB～10 dB@100MHz_100M
Differential gain error: ±3dB @135MHz_100M
Differential phasic error: ±10° @135MHz_100M
Audio frequency:
Sound range: 20Hz～20kHz
SNR: >85dB
Electrical level range: 1～2.5Vpp
THD: < 0.005%@1kHz
Signal type: Non-equilibrium stereo
Power loss:＜2.5W